AMATEUR RADIO LOGGING PACKAGE

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Introduction

The Snow Micro Systems Amateur Radio logging package allows Radio Amateurs a new dimension in log and other record keeping. Logs and records are kept on floppy discs and selected summary information may be obtained at will. The package consists of a software operating system incorporating a number of commands or programs that are loaded by a system executive into memory from the disc and then executed.

The log data files are sequential data files. All LOG commands access the files sequentially starting with the first entry. It is thus advisable to enter data into small files and then merge them later for analysis purposes. Thus should the entry process fill the log file, the auto recovery mode will not take to long to execute. The merge and edit features do not destroy the origional log file, and so the old data is available in case of entry errors.

The WAS data files are random access files. New data is written over the old data. Each file is dated at the end of a session so that the date of last update is available when comparing the printouts of a file at different times. Note that different WAS data files can be set up to keep records by mode, band, OSCAR or what you will, once (or even before) the basic WAS is achieved.

It is advisable to keep backup copies of all command and data files in case of accidental errors.

Run Time Information

To run the package, load BASIC in the conventional manner, then enter LOAD LOG just as you would for loading any other program written in BASIC. After you type RUN, the sign on message will be displayed and the computer will prompt the console thus $\rangle$.

From then on, all commands are executed by entering the command name only, followed by a carriage return. The computer will request any further information that it needs.

In the following example, the user resposes are underscored.

```
NORTH STAR DOS 5.0
+GO BASIC,2
READY
LOAD LOG
READY
RUN
```

G3ZCZ AMATEUR RADIO PACKAGE VERSION 1.0

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$\rangle$

```
>LOGPRINT

What is the name of the log file ? LOG 003
Which drive is it on ? 2
Scan/print whole log, by prefix or date (W, P or D ) ?W

Which output device  ? 0

STATION LOG   WA3LOS                    PAGE 1              FILE LOG003
QSO #    DATE      TIME  BAND    STATION    S    R   MODE  PWR  QSL  COMMENTS
    1   1 Jan 74  1200  20.     W4ART      59   59  SSB   500  --
    2   1 Jan 74  1230  15.     G3ZCZ      59   59  SSB   500  --
    3   1 Jan 74  1300  15.     4X4IN      59   58  SSB   500  --   AVI
    4   1 Jan 74  1315  15.     G3IOR      59   59  SSB   500  --
    5  12 Jan 74  1400  15.     4X4IS      59   59  SSB   450  --
    6  14 Oct 74  1200  15.     VK1RI      59   59  SSB  1000  --
    7  14 Oct 74  1205  15.     4U1A       59   59  SSB  1000  --
    8  14 Oct 74  1206  15.     G2BVN      59   59  SSB  1000  --
    9  15 Nov 74  1200  15.     ZB2BL      59   59  SSB   450  --
   10  15 Nov 74  1234  15.     ZL2AOX     58   59  SSB   450  --
   11  15 Nov 74  1256  15.     DJ4ZC      59   59  SSB   450  --
   12  12 Dec 76  1200  20.     WA3LOS     59   59  SSB   100  --
   13  12 Dec 76  1356  15.     4X4RR     569  559  CW    450  --
   14  12 Dec 76  1400  15.     GJ3ERD    569  559  CW    450  --
   15  12 Dec 76  1423  15.     ZB2BL     559  559  CW    450  --
   16  13 Dec 76  1300  20.     4U1ITU     59   59  SSB   500  --
   17  13 Dec 76  1320  20.     5T5IJ      59   59  SSB   500  --
   18  14 Dec 76  1500  40.     W4ART      59   59  SSB   400  --
   19  14 Dec 76  1520  40.     WA3VXE     59   59  SSB   400  --
   20  15 Jan 77  1234  40.     W3ORG/VE3  59   59  SSB     4  --
   21  17 May 77  1000  10.     W4ART/4X   59   59  SSB   500  --
   22  17 May 77  1055  10.     WA3VXE/4   59   59  SSB   500  --
   23  20 Jun 77  1200  20.     4Z4JEK     59   59  SSB  1000  --
   24  20 Jun 77  1400  20.     G8BTB/4X . 59   58  SSB  1000  --
   25  12 Apr 78  0001  40.     W4ART      59   59  CW    200  --
   26  12 Apr 78  0003  40.     WA4WTG     59   59  CW    200  --
   27  15 May 78  2356  40.     WA3LOS    559  559  RTTY  200  --
Do you want log page ejected ? N
Again ? Y
Scan/print whole log, by prefix or date (W, P or D ) ?P
Which prefix ? 4X

Which output device  ? 0

STATION LOG   WA3LOS                    PAGE 1              FILE LOG003
QSO #    DATE      TIME  BAND    STATION    S    R   MODE  PWR  QSL  COMMENTS
    3   1 Jan 74  1300  15.     4X4IN      59   58  SSB   500  --   AVI
    5  12 Jan 74  1400  15.     4X4IS      59   59  SSB   450  --
   13  12 Dec 76  1356  15.     4X4RR     569  559  CW    450  --
   21  17 May 77  1000  10.     W4ART/4X   59   59  SSB   500  --
   24  20 Jun 77  1400  20.     G8BTB/4X   59   58  SSB  1000  --
Do you want log page ejected ? N
Again ? N

>
```

```
>FILES

Which drive ? 2

Data files on drive 2 are :-

LOG001       S    3
LOG003       S    7
WASDATA      S    14
WASOSCAR     S    14


>ELP
cannot find ELP

>HELP


Which drive ? 2

COMMANDS ON DRIVE  2 ARE :-

FILES
HELP
LOG
LOGDEL
LOGEDIT
LOGENTER
LOGMERGE
LOGPRINT
LOGRENAM
NEWLOG
QSLPRINT
STNINFO
WASENTER
WASGEN
WASPRINT


>LISF
cannot find LISF

>
```

Sample files have been included on the supplied disc. Exercise them before creating your own data files in order to become familiar with the characteristics of the system.

NOTE that error messages will occur if a WAS command tries to access a LOG file and vice versa. These errors will usually be indicated as "TYPE 3 ERROR AT LINE n".

We hope that this package adds to your enjoyment of your hobby. If you have any comments, please write to us.

The system commands are as follows;-

HELP

lists all commands available on the selected disc. (NOTE that commands are Nortnstar convention Type 2 files.).

FILES

lists the names, density and number of blocks of all data files on the selected disc.(Note that data files are Northstar convention Type 3 files.).

LOGDEL

deletes a log data file from the system. This deletion is permanent, so take care when using this command.

LOGEDIT

allows the contents of a log data file to be edited. A new log data file is created containing the edited data. The new file must be given a different name to an existing one. The existing one is not affected by the editing process. This command is used to update QSL information, to correct erronious entries or to add comments at a later date. File Errors will result if the new file is given the same name as the existing one, or if there is not enough space on the disc for the new data file.

LOGENTER

is used to add new entries to a log data file. Should the space on the disc allocated to the data file be filled during the entry process, the computer will announce that fact and automatically determine and indicate the last entry actually written out to the disc.

LOGMERGE

merges two existing log data files. The names of the two files are requested by the computer. The name of the new file that will hold the merged data is then requested. The new data file is then created, and the contents of the two files transferred into the combined one in sequential order. A file error will occur if the disc does not have enogh space to allocate to the new file, or if an attempt is made to give the new file a name that is lready in existance on the disc.

LOGPRINT

searches and prints the contents of a log data file as follows; the entries may be printed out on any of the system output devices (0 is usually assigned to the console, 1 is usually assigned to the printer), in three different formats.

    a) Day based: all entries for a single day, or between two
                  different days (inclusive) will be printed.
    b) Whole log: the contents of the data file will be printed.
    c) Prefix scan: all entries with a particular prefix will
                  be printed. This feature is used to provide
                  summary information as follows,
                  If a whole call sign is entered, all contacts
                  with that station will be displayed. If part
                  of a call is entered, all contacts with station
                  having callsigns containing the entered prefix
                  will be displayed. This feature can thus be
                  used to display all contacts with particular
                  call areas or countries,or to find a call

that is only half remembered. A call can also be
found for someone operating at an other station if
the log entry included the home call enterd between
⟨ and ⟩ signs, for example ⟨G3ZCZ⟩ or ⟨G8BTB⟩ .
Valid prefixes are G, G3, G3Z, G3ZC, or G3ZCZ.

LOGRENAM

renames a log file and its pointer file. This command should
be used to change the name of a log file rather than the RENAME utility
file that you may have obtained.

LOGRESTR

restores the log pointer file associated with a log data file.
This command is used in the event that an anomalie (power failure or
accidental exit from BASIC) occurred during an entry process. The
pointer file is updated to include the last entry written to the disc.
There may thus be a small loss of data (the last few entries).

NEWLOG

creates a new log data file and its pointer file. the computer
requests the name and disc for the file and reserves space on the
disc for the file. Space is reserved for any size file, within the
limits of the operating system. Error messages will occur if the
new log file is given the same name as an existing file or command
on the disc, or if there is insufficient space on the disc to create
a file of the desired size.

QSLPRINT

prints out QSL cards using data extracted from the log file.
The printout is in such form that it can be glued to the back of a
regular QSL card.   The user is requested to input the number of cards
to be printed at one time. The computer then requests the name of
the log data file to be scanned and the calls to whom the cards are
going. The QSL card will then be made out corresponding to the
first non qsl'd entry in the log file for each call sign.   The list
of calls may be entered in any particular order.
As an added option, the computer can edit the log data file to
add the updated QSL information.
An error message will be printed at the console if the number
of cards to be printed in one session requires more memory storage
than is available in the machine. Errors will also be displayed if
non existant log files are chosen or in the edit option, if there
is insufficient space on the disc for the new (updated) file. See
LOGEDIT for more details.   .

STNINFO

sets up the STNDATA file with the custom station data. This
data includes your call sign, your station latitude and logitude, as
well as a reminder of the current log data file.
These data are used by the various commands in the package,
and in other programs soon to be released.
THIS COMMAND SHOULD BE THE FIRST ONE RUN, WHEN INITIALLY BRINGING

THE SYSTEM UP.

```
OSCARWAS WAS Status as of 31 DEC 1977

STATE            STATUS  CALL          DATE       MODE
-----------------------------------------------------------------
ALABAMA
ALASKA
ARIZONA
ARKANSAS
CALIFORNIA       QSL'D   W6CG          24 May 1976    CW
COLORADO
CONNECTICUT      QSL'D   K1HTV         16 Jun 1976    SSB
DELAWARE
FLORIDA          QSL'D   K4KQ          31 May 1976    CW
GEORGIA
HAWAI
IDAHO
ILLINOIS         QSL'D   W9QQG         28 Dec 1975    CW
INDIANA
IOWA             QSL'D   WØII          12 Jan 1976    CW
KANSAS           SENT    WØCY          23 Oct 1975    CW
KENTUCKY         QSL'D   W4MOP         16 Jun 1976    SSB
LOUISIANA
MAINE
MARYLAND         QSL'D   WA3LND        29 Sep 1974    CW
MASSACHUSETTS    QSL'D   W1CRL         13 Mar 1977    SSB
MICHIGAN         QSL'D   WB8BGY        29 Sep 1974    CW
MINNESOTA        QSL'D   WØPHD         17 Oct 1975    SSB
MISSISSIPPI
MISSOURI         QSL'D   WØSL          17 Mar 1977    SSB
MONTANA
NEBRASKA
NEVADA
NEW HAMPSHIRE    QSL'D   W1JSM         29 Dec 1975    CW
NEW JERSEY       QSL'D   K2QBW          2 Jan 1976    CW
NEW MEXICO
NEW YORK         QSL'D   W2GN           7 Oct 1975    CW
N. CAROLINA
N. DAKOTA        QSL'D   WØEOZ          1 Feb 1976    CW
OHIO             WORKED  K8NU          25 Mar 1977    SSB
OKLAHOMA         QSL'D   WA5ETV         4 Jan 1976    SSB
OREGON
PENNSYLVANIA     QSL'D   AC3BWU         4 Jan 1976    SSB
RHODE ISLAND     SENT    WA1RFT        25 Dec 1975    CW
S. CAROLINA
S. DAKOTA        QSL'D   WØIT           1 Nov 1976    CW
TENNESSEE
TEXAS            QSL'D   W5VY          17 Mar 1977    SSB
UTAH
VERMONT
VIRGINIA         QSL'D   W4ART          6 Oct 1975    CW
WASHINGTON
WEST VIRGINIA
WISCONSIN        QSL'D   W9OII         17 Oct 1975    CW
WYOMING
   21 QSL'd, 1 worked and  2 cards in the mail


        SAMPLE WAS DATA FILE LISTING (Call area = 10)
```

Double Density Users

If you compact the disc to Double Density format you must manually change the track 0 entries after running the Compact program to double density using the Northstar DOS as follows, or the package will not work.

delete the following files

HAM.001	is the name
- -	is the date code
< * >	the directory

then create the following files in this order

```
CR   HAM.001   0 0
CR   - -       0 0
CR   <*>       8 0
TY   ﹏*>       3
```

Notes

(1) If you insert the disc in any drive other than drive 1, don't forget to enter the drive identifier after the entry name.

(2) It is advisable to make a copy of the disc before you perform the conversion process.